

D.O.T. 66

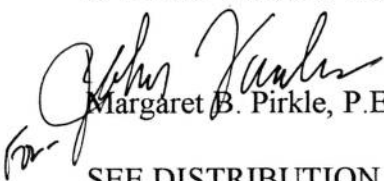
**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENT CORRESPONDENCE**

**FILE** STP-018-1(56)/BRF-018-1(44) Bartow County **OFFICE** Preconstruction  
P. I. Nos. 621255 / 620832

**DATE** June 10, 2003

**FROM**  Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

**TO** SEE DISTRIBUTION

**SUBJECT NOTICE OF LOCATION AND DESIGN APPROVAL**

Attached for your further handling is the approved Location and Design Report on the above subject project.

Also attached is the Notice of Location and Design Approval. This is authorization for the District to proceed with advertisement.

MBP/cj

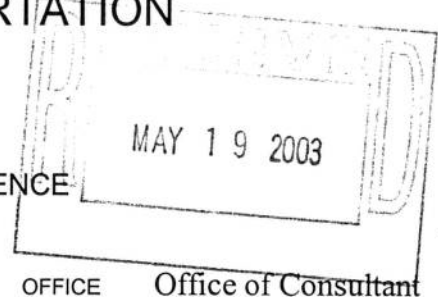
Attachment

**DISTRIBUTION:**

David Mulling  
Harvey Keepler  
Percy Middlebrooks  
Paul Liles  
Phillip Allen  
Jerry Hobbs  
Joe Palladi  
Brent Story  
Kent Sager  
BOARD MEMBER

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FILE STP-018-1(56) & BRF-018-1(44) Bartow County

OFFICE Office of Consultant  
Design

P. I. Numbers 621255 & 620832

DATE May 12, 2003

FROM *Brent A. Story*  
Brent A. Story, P.E., State Consultant Design Engineer

TO Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

SUBJECT **Request for Location and Design Approval**

**Description and Project Proposal:**

Project STP-018-1(56) is the widening and reconstruction of SR 61/SR 113 from CR 533 to Plymouth Drive in Cartersville. The length of project is approximately 3.3 miles, beginning at mile log 2.8 and ending at mile log 6.3. The project lies wholly within Bartow County in Georgia. Approximately 2.9 miles of the project length are within the city limits of Cartersville. The project consists of widening the existing two-lane roadway to a four-lane roadway with a 44' median, then transitioning to a 20' median, and then to a three-lane flush median roadway.

Project BRF-018-1(44) is the replacement of the existing bridge over the Etowah River. The length of project is approximately 0.2 miles. The proposed bridge will consist of 4 lanes with a 20' median.

**Concept Approval Date:** June 26, 1997

**Concept Update:** Revisions to the concept report include the following.

- Typical Section: Sidewalk has been added to all curb and gutter sections.
- Structures: Bridge over Petite Creek will be retained and widened.
- Cost Estimate: Costs have increased due to pay item increases, widening of Petite Creek bridge, and sidewalk.

**Environmental Assessment and Reassessment Approval Date:** January 31, 2002

## Public Involvement

### Hearing Results:

A Public Hearing was held for the project on January 30, 1997. All of the 72 citizens attending the hearing were given an opportunity to comment on the project. Also, written comments were accepted until September 10, 1997. From those attending and those responding during the ten day comment period following the hearing, a total of 78 comments were received. Of those commenting, six gave general support, 62 were opposed and 10 were uncommitted or conditionally supported the project.

The majority of the commentors suggested that a bypass around Cartersville should be constructed as an alternative to the project. Several commentors stated concern for the historic neighborhood located on SR 61/SR 113 just north of the project terminus at Plymouth Drive. Those commenting felt that the roadway would add to the traffic coming through their neighborhood and that in the future the roadway through their neighborhood would also be widened. Other commentors voiced concern over the loss of direct eastbound access to Cedar Hill Mobile Home Park. As a result a median cut has been provided for both ingress and egress to the Cedar Hill Mobile Home Park. Others voiced the need for a median opening for the fire department and a traffic light at the intersection of SR 61 and SR 113. Both of these elements have been included in the design for the project.

### Consistency with Approved Planning:

The design description as presented herein and submitted for approval is consistent with the approved Concept Report.

**Recommendations:** I hereby recommend that the location and design for the project be approved and that the attached Notice be approved for advertising.

RECOMMEND: Thomas L. Linn  
Director of Preconstruction

APPROVE: H. L. Panchet  
Chief Engineer

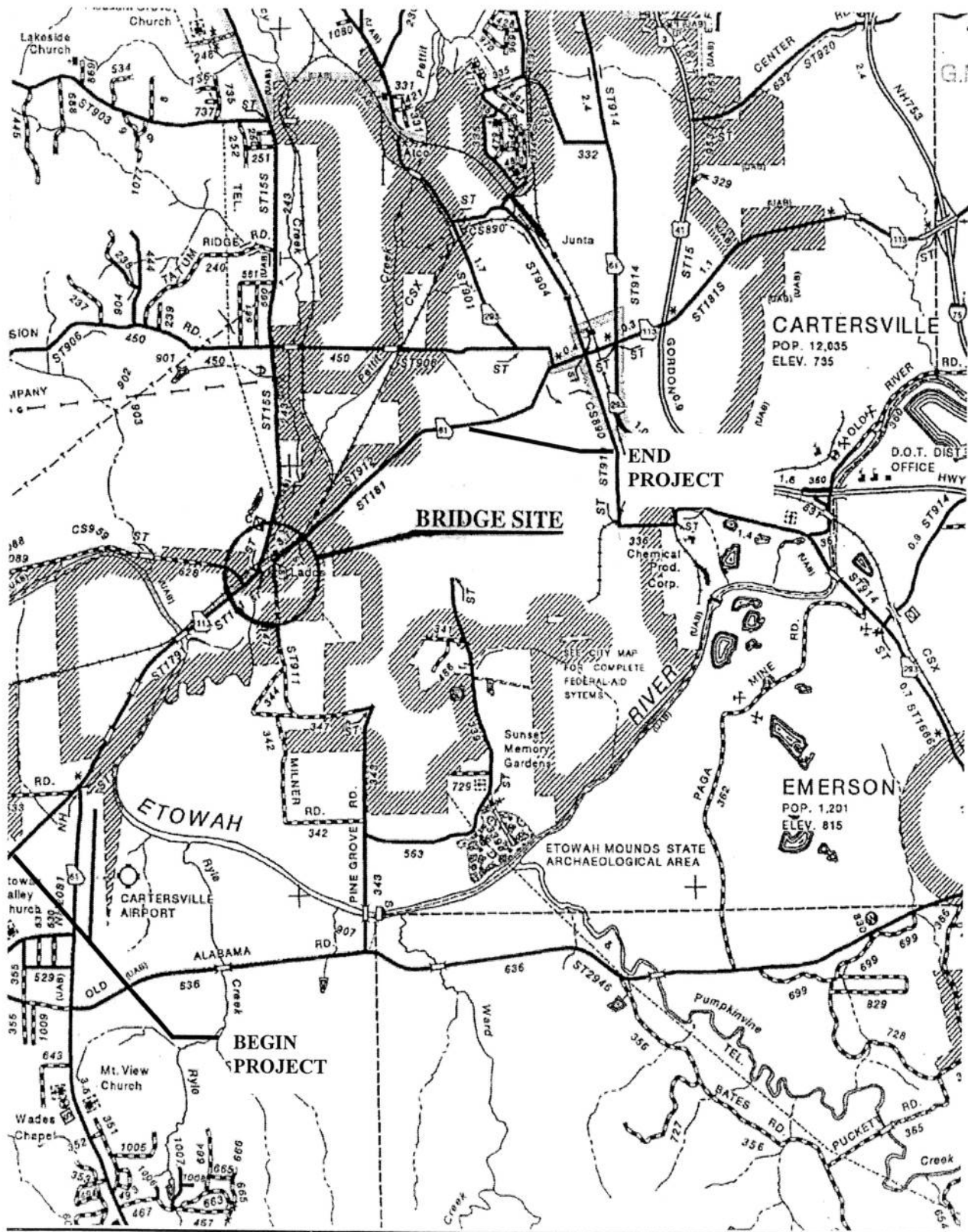
5-20-03  
Date of Approval

### Attachments:

- Sketch Map
- Cost Estimate
- Notice of Location and Design Approval

BAS/MBA/TAH

**Project Location Sketch**  
**STP-018-1(56) & BRF-018-1(44) Bartow County**  
**P.I. Nos. 621255 & 620832**



**Preliminary Cost Estimate**  
Prepared by Gresham, Smith and Partners

Project No.:	STP-018-1(56)	GS&P Project No.:	17815
PI No.:	621255	Date:	3/4/03
County:	Bartow		
Description:	Reconstruction of SR 113 and SR 61		
Length of Roadway:	5.248 km		

**Project Costs:**

**Right-of-way**

1 Property (land & easement)	\$988,790
2 Displacements	\$0
3 Other Costs	\$795,000

**SUBTOTAL** **\$1,783,790**

**Reimbursable Utilities**

1 Nonreimbursable Utilities (Ga. Pwr., South.Bell, AGL, City of Cartersville (Sewer) Total=\$1,000,000	LGPA
2 Reimbursable Utilites (Prestige CATV)	\$22,400

**SUBTOTAL** **\$22,400**

**Construction Costs**

**A. Major Structures**

1 Bridges	1497	m2@	\$538.00	\$805,386
2 Retaining Walls	730	m3@	\$441.23	\$322,098
3 Box Culverts (4 X 4)				
59 m3 Concrete @			\$700.00	\$41,300
5170 kg Reinforcing Steel @			\$1.18	\$6,101

**SUBTOTAL** **\$1,174,885**

**B. Grading & Earthwork**

1 Borrow	125057	m3@	\$3.79	\$473,966
2 Unclassified Excavation	63938	m3@	\$2.99	\$191,174

**SUBTOTAL** **\$665,140**

**C. Drainage**

1 Drainage pipes				
0 lm 375mm @	\$70.77			\$0
2,200 lm 450mm @	\$89.34			\$196,548
794 lm 600mm @	\$99.36			\$78,892
435 lm 750mm @	\$121.96			\$53,053
968 lm 900mm @	\$157.10			\$152,073
50 lm 1050mm @	\$305.43			\$15,272
2 Safety end sections				
0 ea 375mm @	\$385.29			\$0
12 ea 450mm @	\$385.12			\$4,621
5 ea 600mm @	\$584.48			\$2,922
4 ea 750mm @	\$900.00			\$3,600
2 ea 900mm @	\$1,414.29			\$2,829
0 ea 1050mm @	\$3,000.00			\$0
3 Flared end sections				
0 ea 375mm @	\$378.40			\$0
23 ea 450mm @	\$164.22			\$3,777
1 ea 600mm @	\$267.48			\$267
2 ea 750mm @	\$342.80			\$686
2 ea 900mm @	\$453.29			\$907

2 ea 1050mm @	\$1,015.00	\$2,030
4 Catch Basins/Drop Inlets/Manholes		
119 Each @	\$2,310.00	\$274,890
<b>SUBTOTAL</b>		<b>\$792,366</b>

**D. Base & Paving**

1 Asphalt Paving			
11,106 Mg 12.5mm Superpave	\$36.74		\$408,034
8,290 Mg 19mm Superpave	\$37.88		\$314,025
19,385 Mg 25mm Superpave	\$37.27		\$722,479
2,315 Mg Leveling @	\$37.62		\$87,090
36,000 L Bitum. Tack @	\$0.20		\$7,200
2 Graded Aggregate Base			
5,486 m2 150mm GAB @	\$ 6.05		\$33,190
52,359 m2 200mm GAB @	\$ 7.25		\$379,603

**SUBTOTAL \$1,951,622**

**E. Concrete Work**

1 Approach Slabs	986	m2 @	\$130.45	\$128,624
2 Median Barrier (Permanent)				
0 LF Type XX @				\$0
0 LF Type XX @				\$0
3 Curb & Gutter				
5,133 lm Type 2 @	\$31.59			\$162,151
1,520 lm Type 7 @	\$31.07			\$47,226
4 Valley Gutter				
3,600 m2 150mm @	\$32.60			\$117,360
5 Sidewalk	10,180	m2 @	\$22.33	\$227,319
6 Concrete Median 190 mm	4,768	m2 @	\$37.37	\$178,180
7 Ditch Paving	2,000	m2 @	\$33.30	\$66,600

**SUBTOTAL \$927,461**

**F. Signing & Striping**

1 Striping	30000	lm @	1.2	\$36,000
2 Roadside Signs	120	m2 @	230	\$27,600
3 Sign Posts	300	lm @	16	\$4,800
4 Overhead Signs (Including lighting systems)				
Structures @	0			\$0

**SUBTOTAL \$68,400**

**G. Traffic Signals**

1 New Installations	1	EA @	\$65,000	\$65,000
2 Adjust existing signals	1	EA @	\$30,000	\$30,000

**SUBTOTAL \$95,000**

**H. Lighting**

0 LS @				\$0
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**SUBTOTAL \$0**

<b>I.</b>	<b>Guardrail</b>			
	1572 lm Type W @	\$32.13		\$50,508
	160 lm Type T @	\$109.87		\$17,579
	10 ea Type 1 anchors @	\$388.87		\$3,889
	10 ea Type 12 anchors @	\$1,279.39		\$12,794
	<b>SUBTOTAL</b>			<b>\$84,770</b>
<b>J.</b>	<b>Traffic Control</b>			
	1 LS @	\$600,000		\$600,000
	<b>SUBTOTAL</b>			<b>\$600,000</b>
<b>K.</b>	<b>Clearing &amp; Grubbing</b>			
	25 Ha @	\$5,331		\$133,278
	<b>SUBTOTAL</b>			<b>\$133,278</b>
<b>L.</b>	<b>Permanent Erosion Control</b>			
	88000 kg Grassing @	\$	4.50	\$396,000
	<b>SUBTOTAL</b>			<b>\$396,000</b>
<b>M.</b>	<b>Temporary Erosion Control</b>			
	1 Temporary Grassing	26365 kg @	\$2.50	\$65,913
	2 Temporary Mulch	44 MG @	\$219.95	\$9,678
	3 Temporary Silt Fence	10000 lm @	\$9.94	\$99,400
	4 Main. Of Silt Fence	5000 lm @	\$3.91	\$19,550
	5 Erosion Control Mats	42969 m2 @	\$2.88	\$123,751
	6 Sediment Basins	4 ea @	\$6,800.00	\$27,200
	7 Main. Of Sediment Basins	4 ea @	\$663.00	\$2,652
	8 Construction Exit	7 ea @	\$1,500.00	\$10,500
	<b>SUBTOTAL</b>			<b>\$358,643</b>
<b>N.</b>	<b>Miscellaneous Items</b>			
	1 Field Engineers Office Tp 3	1 LS @	\$49,698	\$49,698
	2 Right-of-way Markers	130 EA @	\$65	\$8,450
	3 Bridge Removal	594 m2 @	\$75	\$44,740
	4 Other			\$0
	<b>SUBTOTAL</b>			<b>\$102,889</b>

## Preliminary Cost Estimate Summary

Right-of-way	\$1,783,790
Reimbursable Utilities	\$22,400

## Construction Cost Summary

<b>A.</b>	<b>Major Structures</b>	<b>\$1,174,885</b>
	<b>SUBTOTAL MAJOR STRUCTURES</b>	<b>\$1,174,885</b>
<b>B.</b>	<b>Grading &amp; Earthwork</b>	<b>\$665,140</b>
<b>C.</b>	<b>Drainage</b>	<b>\$792,366</b>
<b>D.</b>	<b>Base &amp; Paving</b>	<b>\$1,951,622</b>
<b>E.</b>	<b>Concrete Work</b>	<b>\$927,461</b>
<b>F.</b>	<b>Signing &amp; Striping</b>	<b>\$68,400</b>
<b>G.</b>	<b>Traffic Signals</b>	<b>\$95,000</b>
<b>H.</b>	<b>Lighting</b>	<b>\$0</b>
<b>I.</b>	<b>Guardrail</b>	<b>\$84,770</b>
<b>J.</b>	<b>Traffic Control</b>	<b>\$600,000</b>
<b>K.</b>	<b>Clearing &amp; Grubbing</b>	<b>\$133,278</b>
<b>L.</b>	<b>Grassing/Landscaping</b>	<b>\$396,000</b>
<b>M.</b>	<b>Temporary Erosion Control</b>	<b>\$358,643</b>
<b>N.</b>	<b>Miscellaneous Items</b>	<b>\$102,889</b>
	<b>SUBTOTAL ROADWAY ITEMS</b>	<b>\$6,175,568</b>
	<b>SUBTOTAL CONSTRUCTION COST</b>	<b>\$7,350,453</b>
	<b>INFLATION (5% PER 2 YEARS)</b>	<b>\$753,421</b>
	<b>E. &amp; C. (10%)</b>	<b>\$1,488,467</b>
	<b>TOTAL CONSTRUCTION COST</b>	<b>\$9,592,341</b>
	<b>GRAND TOTAL PROJECT COST</b>	<b>\$11,398,531</b>

Gresham Smith and Partners does not have control over the cost of labor, materials, equipment, or over the Contractor's method of costing in the marketplace, the opinion of probable cost as herein stated is made on the basis of our experience and qualifications and represent our best judgment as a design professional familiar with the construction industry. However, we can not guarantee that bids or the construction cost will not vary from these probable cost opinions. If the Owner desires greater assurance of the cost of construction, it is recommended he employ an independent cost estimator.

# Preliminary Cost Estimate

Prepared by Gresham, Smith and Partners

Project No.:	BRF-018-1(44)	GS&P Project No.:	17815
PI No.:	620832	Date:	7/8/02
County:	Bartow		
Description:	SR 61 (SR 113) over Etowah River		
Length of Bridges:	0.235 km		

## Project Costs:

### Right-of-way

1 Property (land & easement)	\$0
2 Displacements	\$0
3 Other Costs	\$0

**SUBTOTAL** **\$0**

### Reimbursable Utilities

1 Nonreimbursable Utilities (Ga. Pwr., South.Bell, AGL, City of Cartersville (Sewer) Total=\$1,000,000	LGPA
2 Reimbursable Utilites (Prestige CATV)	\$0

**SUBTOTAL** **\$0**

### Construction Costs

#### A. Major Structures

1 Bridges	4384	m2@	\$538.00	\$2,358,592
2 Retaining Walls	0	m3@	\$441.23	\$0
3 Box Culverts (4 X 4)				
0 m3 Concrete @			\$700.00	\$0
0 kg Reinforcing Steel @			\$1.18	\$0

**SUBTOTAL** **\$2,358,592**

#### B. Grading & Earthwork

1 Borrow	0	m3@	\$3.79	\$0
2 Unclassified Excavation	0	m3@	\$2.99	\$0

**SUBTOTAL** **\$0**

#### C. Drainage

1 Drainage pipes				
0 lm 375mm @	\$70.77			\$0
0 lm 450mm @	\$89.34			\$0
0 lm 600mm @	\$99.36			\$0
0 lm 750mm @	\$121.96			\$0
0 lm 900mm @	\$157.10			\$0
0 lm 1050mm @	\$305.43			\$0
2 Safety end sections				
0 ea 375mm @	\$385.29			\$0
0 ea 450mm @	\$385.12			\$0
0 ea 600mm @	\$584.48			\$0
0 ea 750mm @	\$900.00			\$0
0 ea 900mm @	\$1,414.29			\$0
0 ea 1050mm @	\$3,000.00			\$0
3 Flared end sections				
0 ea 375mm @	\$378.40			\$0
0 ea 450mm @	\$164.22			\$0

0 ea 600mm @	\$267.48	\$0
0 ea 750mm @	\$342.80	\$0
0 ea 900mm @	\$453.29	\$0
0 ea 1050mm @	\$1,015.00	\$0
4 Catch Basins/Drop Inlets/Manholes		
0 Each @	\$2,310.00	\$0

**SUBTOTAL** **\$0**

**D. Base & Paving**

1 Asphalt Paving			
0 Mg 12.5mm Superpave	\$36.74		\$0
0 Mg 19mm Superpave	\$37.88		\$0
0 Mg 25mm Superpave	\$37.27		\$0
0 Mg Leveling @	\$37.62		\$0
0 L Bitum. Tack @	\$0.20		\$0
2 Graded Aggregate Base			
0 m2 150mm GAB @	\$ 6.05		\$0
0 m2 200mm GAB @	\$ 7.25		\$0

**SUBTOTAL** **\$0**

**E. Concrete Work**

1 Approach Slabs	0	m2@	\$130.45	\$0
2 Median Barrier (Permanent)				
0 LF Type XX @				\$0
0 LF Type XX @				\$0
3 Curb & Gutter				
0 lm Type 2 @	\$31.59			\$0
0 lm Type 7 @	\$31.07			\$0
4 Valley Gutter				
0 m2 150mm @	\$32.60			\$0
5 Sidewalk	0	m2@	\$22.33	\$0
6 Concrete Median 190 mm	0	m2@	\$37.37	\$0
7 Ditch Paving	0	m2@	\$33.30	\$0

**SUBTOTAL** **\$0**

**F. Signing & Striping**

1 Striping	0	lm@	1.2	\$0
2 Roadside Signs	0	m2@	230	\$0
3 Sign Posts	0	lm@	16	\$0
4 Overhead Signs (Including lighting systems)				
Structures @	0			\$0

**SUBTOTAL** **\$0**

**G. Traffic Signals**

1 New Installations	0	EA @	\$65,000	\$0
2 Adjust existing signals	0	EA @	\$30,000	\$0

**SUBTOTAL** **\$0**

**H. Lighting**

0 LS @				\$0
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**SUBTOTAL** **\$0**

**I. Guardrail**

0 lm Type W @	\$32.13	\$0
0 lm Type T @	\$109.87	\$0

	0 ea Type 1 anchors @	\$388.87	\$0
	0 ea Type 12 anchors @	\$1,279.39	\$0
	<b>SUBTOTAL</b>		<b>\$0</b>
<b>J.</b>	<b>Traffic Control</b>		
	0 LS @	\$300,000	\$0
	<b>SUBTOTAL</b>		<b>\$0</b>
<b>K.</b>	<b>Clearing &amp; Grubbing</b>		
	0 Ha @	\$5,331	\$0
	<b>SUBTOTAL</b>		<b>\$0</b>
<b>L.</b>	<b>Permanent Erosion Control</b>		
	0 kg Grassing @	\$ 4.50	\$0
	<b>SUBTOTAL</b>		<b>\$0</b>
<b>M.</b>	<b>Temporary Erosion Control</b>		
	1 Temporary Grassing	0 kg @ \$2.50	\$0
	2 Temporary Mulch	0 MG @ \$219.95	\$0
	3 Temporary Silt Fence	0 lm @ \$9.94	\$0
	4 Main. Of Silt Fence	0 lm @ \$3.91	\$0
	5 Erosion Control Mats	0 m2 @ \$2.88	\$0
	6 Sediment Basins	0 ea @ \$6,800.00	\$0
	7 Main. Of Sediment Basins	0 ea @ \$663.00	\$0
	8 Construction Exit	0 ea @ \$1,500.00	\$0
	<b>SUBTOTAL</b>		<b>\$0</b>
<b>N.</b>	<b>Miscellaneous Items</b>		
	1 Field Engineers Office Tp 3	0 LS @ \$49,698	\$0
	2 Right-of-way Markers	0 EA @ \$65	\$0
	3 Bridge Removal	1,563 m2 @ \$75	\$117,725
	4 Other		\$0
	<b>SUBTOTAL</b>		<b>\$117,725</b>

## Preliminary Cost Estimate Summary

Right-of-way	\$0
Reimbursable Utilities	\$0

## Construction Cost Summary

<b>A.</b>	<b>Major Structures</b>	<b>\$2,358,592</b>
	<b>SUBTOTAL MAJOR STRUCTURES</b>	<b>\$2,358,592</b>
<b>B.</b>	<b>Grading &amp; Earthwork</b>	<b>\$0</b>
<b>C.</b>	<b>Drainage</b>	<b>\$0</b>
<b>D.</b>	<b>Base &amp; Paving</b>	<b>\$0</b>
<b>E.</b>	<b>Concrete Work</b>	<b>\$0</b>
<b>F.</b>	<b>Signing &amp; Striping</b>	<b>\$0</b>
<b>G.</b>	<b>Traffic Signals</b>	<b>\$0</b>
<b>H.</b>	<b>Lighting</b>	<b>\$0</b>
<b>I.</b>	<b>Guardrail</b>	<b>\$0</b>
<b>J.</b>	<b>Traffic Control</b>	<b>\$0</b>
<b>K.</b>	<b>Clearing &amp; Grubbing</b>	<b>\$0</b>
<b>L.</b>	<b>Grassing/Landscaping</b>	<b>\$0</b>
<b>M.</b>	<b>Temporary Erosion Control</b>	<b>\$0</b>
<b>N.</b>	<b>Miscellaneous Items</b>	<b>\$117,725</b>
	<b>SUBTOTAL ROADWAY ITEMS</b>	<b>\$117,725</b>
	<b>SUBTOTAL CONSTRUCTION COST</b>	<b>\$2,476,317</b>
	<b>INFLATION (5% PER 2 YEARS)</b>	<b>\$253,823</b>
	<b>E. &amp; C. (10%)</b>	<b>\$501,454</b>
	<b>TOTAL CONSTRUCTION COST</b>	<b>\$3,231,594</b>
	<b>GRAND TOTAL PROJECT COST</b>	<b>\$3,231,594</b>

Gresham Smith and Partners does not have control over the cost of labor, materials, equipment, or over the Contractor's method of costing in the marketplace, the opinion of probable cost as herein stated is made on the basis of our experience and qualifications and represent our best judgment as a design professional familiar with the construction industry. However, we can not guarantee that bids or the construction cost will not vary from these probable cost opinions. If the Owner desires greater assurance of the cost of construction, it is recommended he employ an independent cost estimator.

# NOTICE OF LOCATION AND DESIGN APPROVAL

## ***PROJECT STP-018-1(56) & BRF-018-1(44) BARTOW COUNTY P. I. NUMBERS 621255 & 620832***

Notice is hereby given in compliance with Georgia Code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of this project.

Location and Design Approval Date: May 28, 2003

*Project STP-018-1(56) is the widening and reconstruction of SR 61/SR 113 from CR 533 to Plymouth Drive in Cartersville. The length of project is approximately 3.3 miles, beginning at mile log 2.8 and ending at mile log 6.3. The project lies wholly within Bartow County in Georgia. Approximately 2.9 miles of the project length are within the city limits of Cartersville. The project consists of widening the existing 2 lane roadway to a 4 lane roadway with a 44' median, then transitioning to a 20' median, and then to a 3 lane flush median roadway.*

*Project BRF-018-1(44) is the replacement of the existing bridge over the Etowah River. The length of project is approximately 0.2 miles. The project is within Land Lot 708, 4<sup>th</sup> District, 3<sup>rd</sup> Section, Bartow County, Georgia. The proposed bridge will consist of 4 lanes and 20' median.*

Drawings or maps or plats of the proposed project, as approved, are on file and are available for public inspection at the Georgia Department of Transportation:

*Mike Thomason  
Mike.Thomason@dot.state.ga.us  
874 Peebles Valley Road, N.W.  
Cartersville, Georgia 30120  
770-387-3680*

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

*Tom Hodges, P.E.  
Office of Consultant Design  
Tom.Hodges@dot.state.ga.us  
No. 2 Capitol Square, SW  
Atlanta, Georgia 30334  
404-656-5397*

Any written request or communication in reference to this project or notice SHOULD include the Project and P. I. Numbers as noted at the top of this notice.